## **PATENT**

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket No.: HESS-2

In re Application of:

RAUL HESS

Appl. No.: 10/572,756

Filed: March 20, 2006

For: METHOD AND DEVICE FOR MULTILAYER (Confirmation No.: 9550)

REMOVAL OF MATERIAL FROM A THREE (CONFIRMATION NO.)

DIMENSIONAL SURFACE WITH LASER (CONFIRMATION NO.)

USING A POLYGON NETWORK (CONFIRMATION NO.)

DESCRIBED BY A MATHEMATICAL (CONFIRMATION NO.)

## INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

## SIR:

In accordance with 37 C.F.R. 1.56, applicant wishes to call the attention of the Examiner to the references listed on enclosed form PTO-1449 which were cited in the instant specification, in the International Search Report issued by the European Patent Office with regard to the corresponding International patent application No. PCT/EP2004/010715 and in a German Office Action issued by the German Patent Office with regard to the corresponding German patent application No. 103 45 080.7, respectively. Applicant does not admit that any of the cited documents constitutes prior art against the pending application.

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Copies of these references are submitted herewith along with form PTO-1449. The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

[]	This Information Disclosure Statement is filed within three months of the filing
	date of a national application other than a continued prosecution application
	under 1.53(d), so that no fee under 37 C.F.R. §1.97 is due.
[]	This Information Disclosure Statement is filed within three months of the date
	of entry of the national stage as set forth in 1.491 in an international
	application, so that no fee under 37 C.F.R. §1.97 is due.
[X]	This Information Disclosure Statement is filed before the mailing of a first Office
	Action on the merits, so that no fee under 37 C.F.R. §1.97 is due.
[]	This Information Disclosure Statement is filed before the mailing of a first Office
	Action after the filing of a request for continued examination under §1.114, so
	that no fee under 37 C.F.R. §1.97 is due.
[]	This Information Disclosure Statement is filed after the issuance of a first office
	but before issuance of a final action under §1.113, or a notice of allowance
	under §1.311.
[]	This Information Disclosure Statement is submitted after the mailing of a final
	action or a notice of allowance, but before payment of the issue fee.
[]	The undersigned submits the following statement requesting consideration of
	this statement:
	The undersigned hereby states:
[]	That each item of information contained in the information disclosure statement
	was first cited in any communication from a foreign patent office in a
	counterpart foreign application not more than three months prior to the filing of
	the information disclosure statement;
[]	That no item of information contained in the information disclosure statement
	was cited in a communication from a foreign patent office in a counterpart

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foreign application, and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the information disclosure statement.

- [] The fee of \$180.00 set forth in 1.17(p).
- [] The Commissioner is hereby authorized to charge the fee as set forth in 1.17(p), and any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.
- [X] The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.

In order to satisfy the requirement under 37 C.F.R. §1.98(a)(3) for a concise explanation of the relevance of each item of information, applicant herewith submits a copy of the International Search Report. In addition, applicant notes with respect to any information that is not in English language as follows:

German Offenlegungsschrift DE 39 39 866 A1 describes a laser engraving device using a laser light source (8) and a controlled beam deflector (5, 6) which allows the laser beam to be deflected onto a focussing mirror (3) in dependence on the characters to be engraved. The focussing mirror (3) comprises a rotationally symmetrical annular mirror or mirror section, with a current mirror surface (4) in the plane containing the axes of symmetry (16). Pref. the axis of symmetry (16) for the focussing mirror (3) coincides with the axis of symmetry of the workpiece mantle surface (13). The workpiece is preferably axially offset along the axis of symmetry (16) of the mirror (3). While engraving the work piece need not be moved relative to the laser.

German Patent No. DE 42 09 933 C2 describes a partial surface modification of metallic or non-metallic bodies carried out using a Q-switched

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continuous wave Nd:YAG laser having optionally a beam expander in the beam path, a beam deflector with a computer-controlled rotary deflection mirror, and a plane field objective for focussing the laser beam, the laser being moved over the surface along one or more reference lines present by the computer. The laser beam is moved within an outline (U1, U2) delimiting the surface portion (A) to be modified, along reference lines forming the grid lines (R1, R2, R3) of a grid field (N) and then the entire grid field (N) is shifted at least once by a certain amount, while maintaining the relative position of the outline (U1, U2) and the entire surface portion (A) is re-scanned by the laser beam along the grid lines (R1, R2, R3). During each scan, the operating time and the energy content level of the laser pulses are limited so that material evaporation is effected with minimal plasma formation.

The above-identified application discloses and claims an invention patentable over this prior art.

Entry of the references above set forth into the file of the above application is believed to be in order and is respectfully requested.

Respectfully submitted

Ursula B. Day

Attorney for Applicant

Reg. No. 47,296

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UBD:af

Form PTO-1449  U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE CITATION													
Attorne	y's Docket	No.	Applic	Applicant					Appl. No.				
		RAUL HESS				10/572,756							
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U.S. PATENT DOCUMENTS													
Examiner Initial	ner Document [ Number		Date Na		me	Class			Subclass		Filing Date, if appropriate		
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	DE 101 16 672 A1		10-18-2001		Germany							no	
	DE 100 32 981 A1		01-24-2002		Germany							no	
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	DE 39 39 866 A1			1	Germany							no	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)													
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Examiner: Date considered:													
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.													